

## Curriculum Map 2019-20 Earth Science

Approx.TIME	UNIT	CONTENT	Standard(s)	Skills
Early to mid Sept	Introduction: Welcome to Earth Science	<ul style="list-style-type: none"> <li>• Topics covered in Earth Science</li> <li>• Types of graphs</li> <li>• Density</li> </ul>	Framework	-
mid-sept. to mid-Oct.	Unit 1 Planet Earth	<ul style="list-style-type: none"> <li>• Models</li> <li>• Shape of the Earth</li> <li>• The structure of the Earth</li> <li>• locating positions on the Earth</li> <li>• Using Scale</li> <li>• Fields</li> </ul>	KI1.1 c, d, i 2.1 q 2.2 q	-
mid Oct- mid-Nov/Thanksgiving break	Unit 2 Minerals, Rocks, and Resources	<ul style="list-style-type: none"> <li>• Mineral resources</li> <li>• Rocks:Igneous, sedimentary, metamorphic</li> <li>• Rock cycle</li> <li>• Natural resources</li> </ul>	3.1 a, b, c 1.2 i 2.1 k, m, w 3.1 c	-
mid Nov- Dec	Unit 3 The Dynamic Crust	<ul style="list-style-type: none"> <li>• What Causes Earthquakes?</li> <li>• Earthquake Waves</li> <li>• Earth's Layers</li> <li>• Earthquakes and volcanoes</li> <li>• Continental Drift</li> <li>• What Drives Plate Tectonics?</li> </ul>	2.1 j, k, l, n, o, t 2.2 b	-
Jan.	Unit 4 Weathering, Erosion, and Deposition	<ul style="list-style-type: none"> <li>• Why Do Rocks Weather?</li> <li>• How do Soils Form?</li> <li>• How Are Weathered Materials Transported?</li> <li>• What is Deposition?</li> </ul>	1.2 g 2.1 s, t, u, v	-
Jan.	Unit 5 Glaciers, Oceans, and Landscapes	<ul style="list-style-type: none"> <li>• NY and the ice ages</li> <li>• Oceans and coastal processes</li> <li>• What is a landscape?</li> </ul>	1.1 e, i 1.2 d, f, g 2.1 p, r, u 2.2 c, d	

Curriculum Map 2019-20 Earth Science

		<ul style="list-style-type: none"> <li>• How do geologic factors influence the landscape?</li> </ul>		
Feb	Unit 6 Interpreting Earth's History	<ul style="list-style-type: none"> <li>• The geologist as a detective</li> <li>• Establishing a geologic sequence</li> <li>• How can rocks be correlated?</li> <li>• Geologic time scale</li> <li>• Evolution of life</li> <li>• What is radioactive dating?</li> </ul>	1.2 i, j 2.1 w	
March	Unit 7+ 8 Properties of the Atmosphere and Weather Systems	<ul style="list-style-type: none"> <li>• What is the earth's atmosphere?</li> <li>• What is the structure of the atmosphere?</li> <li>• changes in air temperature</li> <li>• What causes air pressure?</li> <li>• Moisture in the atmosphere</li> <li>• What causes the wind?</li> <li>• What is weather?</li> <li>• How are weather variables related?</li> <li>• How do clouds form and cause precipitation?</li> <li>• How does energy enter the atmosphere?</li> <li>• What is a synoptic weather map?</li> <li>• How can we predict the weather?</li> <li>• Can we learn to live with natural Hazards?</li> </ul>	1.1 e 1.2 e, h 2.1 i 2.2 a, b, d	
April	Unit 9 The Water Cycle and Climate	<ul style="list-style-type: none"> <li>• The hydrologic cycle</li> <li>• Water for streamflow</li> <li>• How does heat energy travel?</li> <li>• Insolation</li> <li>• climate</li> </ul>	1.2 g 2.2 b, c, d	

Curriculum Map 2019-20 Earth Science

May/June	Unit 10+ 11 Earth In Space and Beyond Planet Earth	<ul style="list-style-type: none"> <li>• Motions of Celestial objects</li> <li>• What are constellations?</li> <li>• Models of the night sky</li> <li>• Apparent motions of the sun</li> <li>• Latitude and angle of the sun</li> <li>• Earth's moon</li> <li>• Angular diameter of celestial objects</li> <li>• The tides</li> <li>• The geometry of orbits the force of gravity the solar system</li> <li>• Galaxies of stars</li> <li>• Evolution of the universe</li> </ul>	1.1 a, b, e, f, g, h 1.2 a, b, c, d	
Ongoing, end of year, or after a test and before a vacation if there are only few/several days left	Unit 12 Environmental Awareness	<ul style="list-style-type: none"> <li>• How are earth systems linked?</li> <li>• How does technology affect the environment?</li> <li>• How can we classify pollution?</li> <li>• How has the human population grown?</li> <li>• How can we best manage our resources?</li> <li>• Preserving earth's systems</li> </ul>		
May/ June	Review for the regents	<ul style="list-style-type: none"> <li>•</li> </ul>		
June	Lab Practical/ exam	<ul style="list-style-type: none"> <li>•</li> </ul>		